



Section B:2

Analytical Services

(222-S, HASP, WSCF)

PROJECT MANAGERS

S.H. Wisness, RL
(509) 373-9337

D.L. Renberger, FH
(509) 372-0877

SUMMARY

The Analytical Services Project [222-S, Hanford Analytical Services Program (HASP), Waste Sampling and Characterization Facility (WSCF)] consists of Analytical Services, PBS WM06, WBS 1.2.4.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of August 31. Other information is updated as noted.

Fiscal-year-to-date-milestone performance (EA, DOE-HQ and RL) shows one milestone completed ahead of schedule.

ACCOMPLISHMENTS

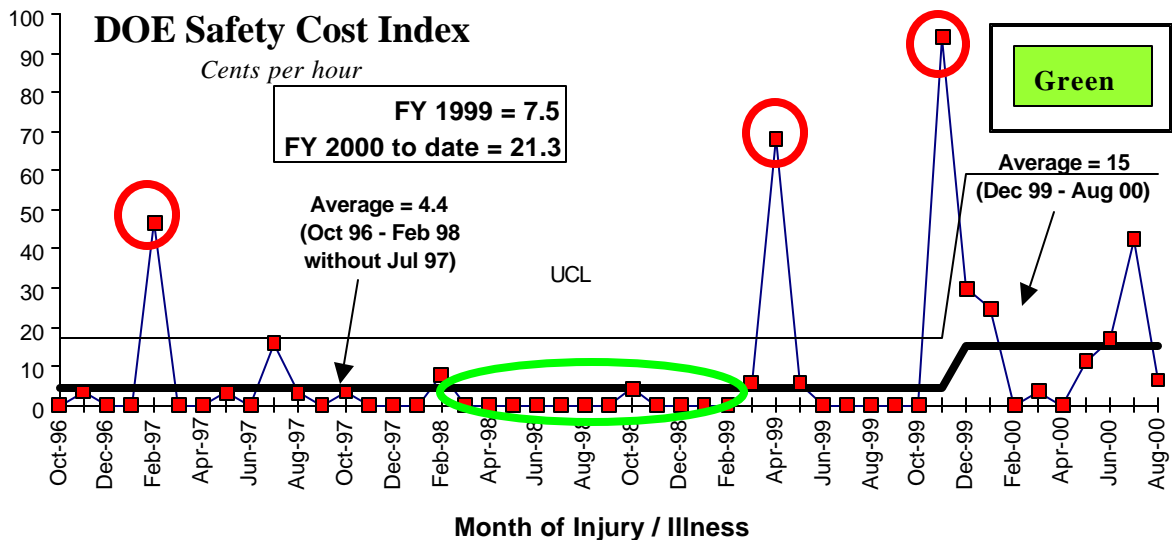
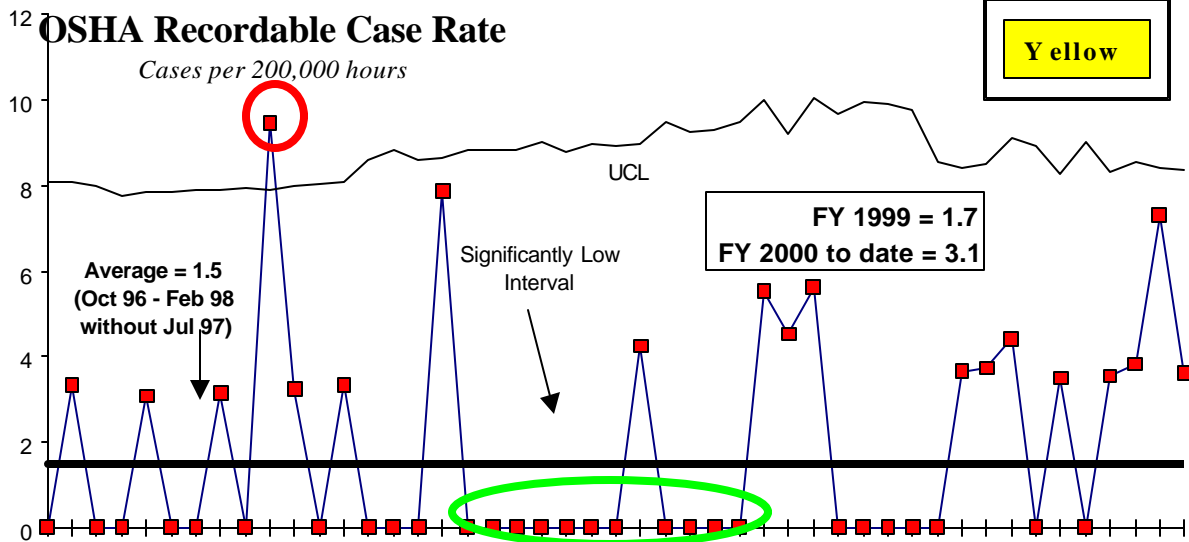
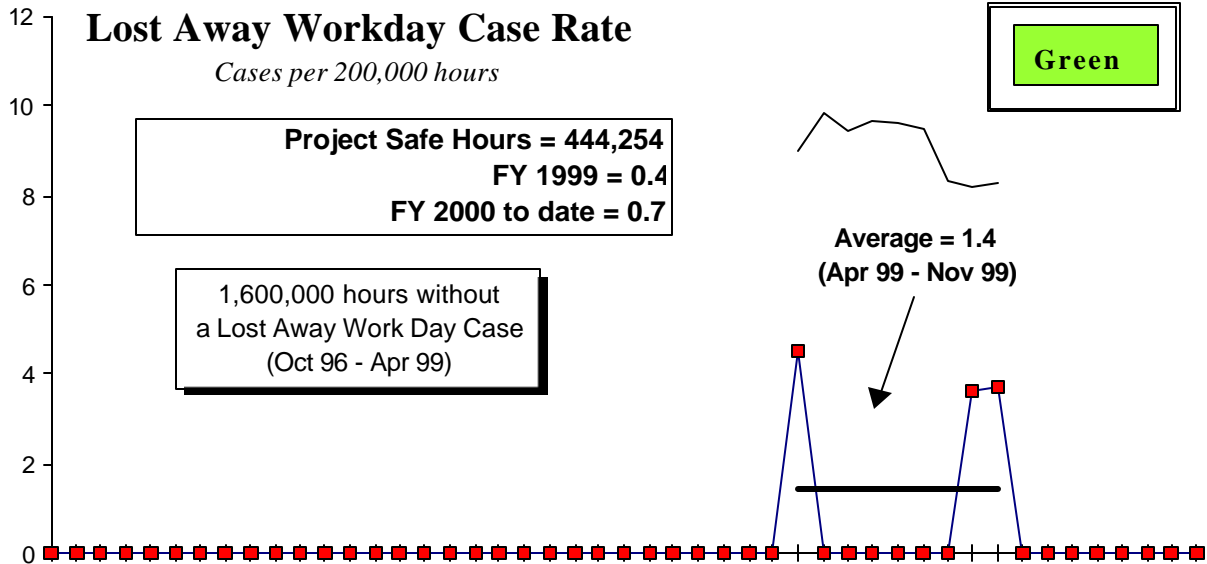
- Completed the FY 2000 milestone commitment of 11 Analytical Equivalent Unit (AEUs) on August 18, 2000. Processed a total of 1.4 AEUs at the 222-S Laboratory in August in support of the RPP (TWRS) tank characterization program. Production FYTD through August 2000 is 11.7 AEUs, versus a planned 10 AEUs. Issued final reports for the AZ-101 mixer pump test grab sample, and final reports for SY-101 and SY-102 grab samples. Completed a special analysis on an A-101 pump sample to support an analysis of pump failures.
- Completed all analytical reports in support of CH₂M Hill Hanford Group Inc. (CHG) Performance Incentives affected by laboratory support.
- Performed 1,857 analyses in August at WSCF for a wide variety of customers as planned. FYTD production through August 2000 is 16,523 analyses and through September 11, 2000 is 16,752 analyses. The final four Vapor Data packages were completed in support of the CHG Performance Incentive commitment.

Safety

In August, there was one Restricted Workday Case, two First Aid Cases, one Report Only (no symptoms), and one Not Job Related Case. Analytical Services continues to focus on ergonomic issues, and has brought HEHF expertise to 222-S to assist in ergonomic evaluations.

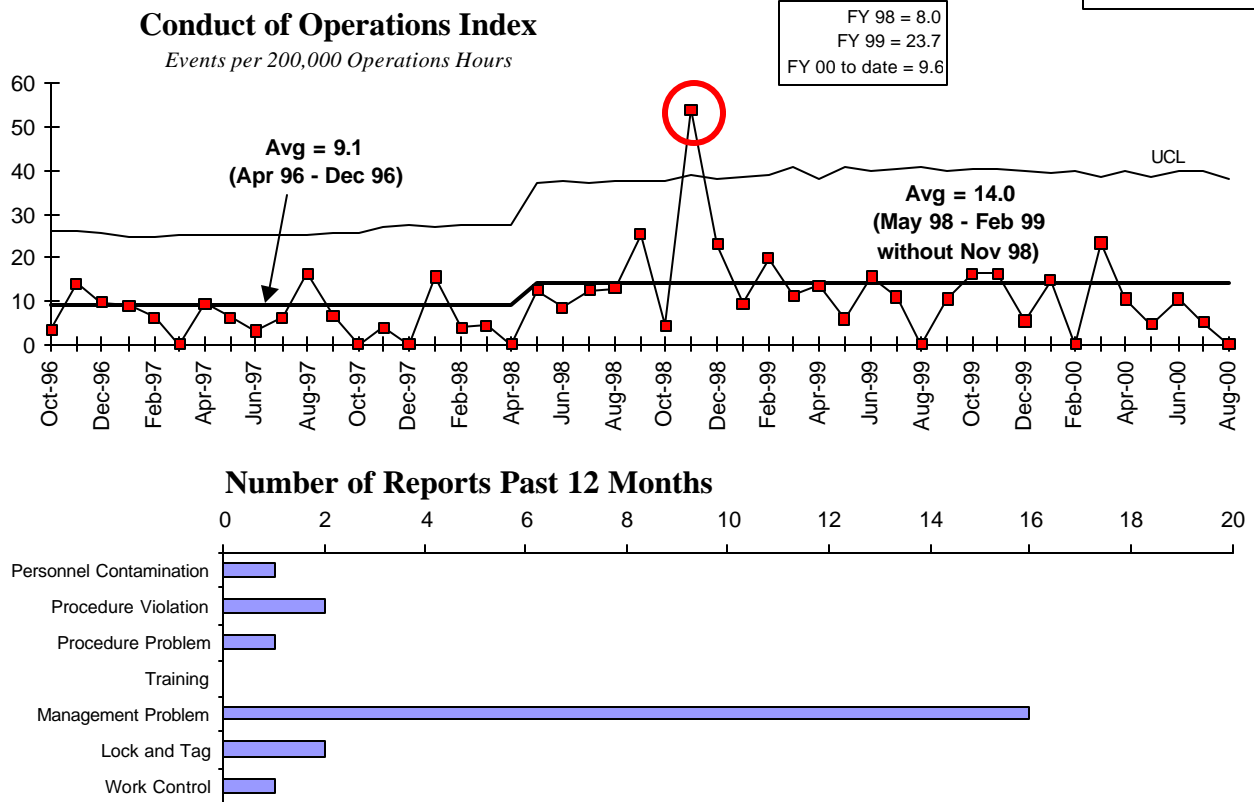
OSHA recordable case rate is stable at a rate higher than the PHMC goal of 0.9.

The DOE Safety Cost Index has been rebaselined upwards due to recent increasing trends.



CONDUCT OF OPERATIONS / ISMS STATUS

Green



ISMS STATUS

Analytical Services ISMS status is included in the Waste Management Project Section of this report.

Green

BREAKTHROUGHS

Nothing to report.

OPPORTUNITIES FOR IMPROVEMENT

Analytical Services Facility and Equipment Upgrades Team: RL is assessing the framework under which cleanup can be maximized while working to incorporate a “realistic” funding profile over the next ten to fifteen years. Consistent with the RL outcomes, the priority is achieving the River Corridor Outcome by 2010 or shortly thereafter. This approach necessitates a probable re-sequencing of the current baseline activities in the 200 Areas. An Analytical Services Facility and Equipment Upgrades Team has identified required facility and equipment work scope to support the RL outcomes. Presentations were made to FH and RL to detail risks and impacts associated with the work scope to the Site cleanup mission. Related activities:

A long-term laboratory instrument capital plan, including analytical reliability requirements, was prepared in response to concerns over the lack of adequate funding in FY01 and future years for Capital equipment not related to construction (CENRTC), facility repair and Laboratory Information Management System (LIMS) upgrades.

RPP recognizes the need and is indicating a willingness to fund a portion of the upgrades needed to provide for reliability of analytical services.

Analytical Services provided input to a DOE-HQ Infrastructure Restoration Plan to incorporate long-term Hanford laboratory needs.

Upcoming Activities

WIPP Waste Shipments — Continue to support the production goal of headspace analysis in support of waste shipments to WIPP.

ORP Waste Treatment Plant — A recommendation from the 200 Areas Option Study is to determine Analytical Services support requirements to the ORP Waste Treatment Plant. This includes technical support to the WTP design, cold testing and startup support, process control and monitoring, and troubleshooting. Options for long-term high-activity laboratory support to the Site cleanup mission (i.e. 222-S, WTP laboratory, a new laboratory, etc.) are also to be evaluated. These potential areas of support to the ORP WTP were compiled and submitted to RL through FH and will be further investigated.

222-S RCRA Part B Application — Issue Modification F (222-S) of the Hanford Facility (HF) RCRA Permit for public review after issuance of Modification E. Ecology is planning on issuing Modification E (WRAP and CWC) by the end of the calendar year. Prepare and deliver the remaining outstanding items (Dangerous Waste Training Plan and the updated WIDS input) from the permit application package to Ecology in September 2000.

PCB Management — Continue to support RL and ORP negotiations with Ecology on PCB management and regulatory issues.

Waste Management Education and Research Consortium (WERC) Northwest Initiative — Analytical Services will host the executive director of the WERC on October 3-4, 2000. Opportunities to leverage WERC expertise and experience in environmental education, technology development and outreach are being explored. RL has approved the establishment of a Memorandum of Understanding (MOU) with WERC and a WERC-NW Steering Committee.

Bioassay, Analytical, and Environmental Radiochemistry (BAER) Conference — Dr. Steven Bakhtiar of Analytical Services is chairing the 46th Annual BAER Conference in Seattle in mid-November 2000.

COST PERFORMANCE (\$M):

Green

	BCWP	ACWP	VARIANCE
Analytical Services	\$24.9	\$24.4	\$0.5

The \$0.5 million (2 percent) favorable cost variance is within established thresholds.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
Analytical Services	\$24.9	\$25.5	- \$0.6

The \$0.6 million (2 percent) unfavorable schedule variance is within the established threshold.

FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)

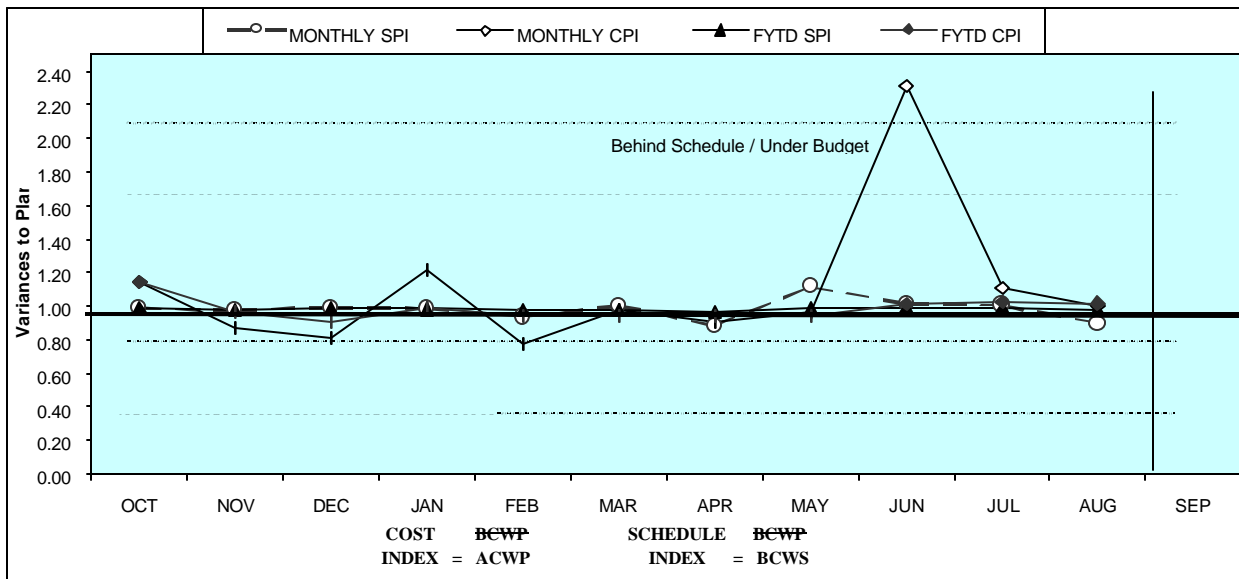
Green

		FYTD							Green	
Bv PBS		BCWS	BCWP	ACWP	SV	%	CV	%	PEM	EAC
WBS 1.2.4*	Analytical									
PBSWM06	Services	\$ 25,481	\$ 24,889	\$ 24,432	\$ (592)	-2%	\$ 457	2%	\$ 27,924	\$ 26,850
Total		\$ 25,481	\$ 24,889	\$ 24,432	\$ (592)	-2%	\$ 457	2%	\$ 27,924	\$ 26,850

*Note: RL-Directed costs (steam and laundry) are included in the PEM BCWS/ACWP/EAC.

COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)

Green



FY 2000	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MONTHLY SPI	0.99	0.98	0.99	0.98	0.94	1.00	0.88	1.12	1.01	1.01	0.90	
MONTHLY CPI	1.14	0.87	0.81	1.22	0.78	0.98	0.91	0.96	2.31	1.11	1.00	
FYTD SPI	0.99	0.98	0.99	0.98	0.97	0.98	0.97	0.99	0.99	0.99	0.98	
FYTD CPI	1.14	0.96	0.91	0.99	0.94	0.95	0.94	0.94	1.02	1.03	1.02	
MONTHLY BCWS	\$1,588	\$2,340	\$1,973	\$2,896	\$2,283	\$2,613	\$2,279	\$2,358	\$2,493	\$2,069	\$2,580	\$2,444
MONTHLY BCWP	\$1,566	\$2,288	\$1,960	\$2,848	\$2,135	\$2,624	\$2,010	\$2,632	\$2,527	\$2,086	\$2,320	
MONTHLY ACWP	\$1,369	\$2,640	\$2,414	\$2,342	\$2,741	\$2,686	\$2,208	\$2,733	\$1,093	\$1,885	\$2,319	
FYTD BCWS	\$1,588	\$3,928	\$5,901	\$8,797	\$11,080	\$13,693	\$15,973	\$18,330	\$20,823	\$22,892	\$25,481	\$27,925
FYTD BCWP	\$1,566	\$3,854	\$5,814	\$8,662	\$10,797	\$13,421	\$15,431	\$18,063	\$20,590	\$22,676	\$24,889	
FYTD ACWP	\$1,369	\$4,009	\$6,423	\$8,765	\$11,506	\$14,193	\$16,401	\$19,134	\$20,228	\$22,113	\$24,432	

COST VARIANCE ANALYSIS: (\$0.5M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description/Cause: The favorable cost variance of \$0.5 million (2 percent) is within established thresholds.

Impact: Current yearend projections indicate Analytical Services will slightly underrun available funds.

Corrective Action: Corrective actions have been identified and implemented to maintain projections.

SCHEDULE VARIANCE ANALYSIS: (-\$0.6M)

WBS/PBS

Title

1.2.4/WM06

Analytical Services

Description /Cause: The unfavorable schedule variance of \$0.6M (2 percent) is within established threshold.

Impact: None.

Corrective Action: None required.

FUNDS MANAGEMENT FUNDS VS SPENDING FORECAST (\$000) FY TO DATE THROUGH AUGUST 2000 (FLUOR HANFORD, INC. ONLY)

	Project Completion *			Post 2006 *			Line Items *		
	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance	Expected Funds	FYSF	Variance
The Plateau 1.2.4 Analytical Svcs (222-S,HASP,WSCF) WM06				26,457	26,302	155			
Line Item									
Total Analytical Serv. Operating				\$ 26,457	\$ 26,302	155			
Total Analytical Serv. Line Item									

* Control Point

ISSUES

Technical Issues

Nothing to report.

DOE/Regulator/External Issues

Nothing to report.

BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

PROJECT CHANGE NUMBER	DATE ORIGIN	BCR TITLE	FY00 COST IMPACT \$000	SCH	TECH	DATE TO CCR	CCB APPR'D	DI APPR'D	CURRENT STATUS
		Nothing to report at this time.							
ADVANCE WORK AUTHORIZATIONS									
		Nothing to report at this time.							

Green

MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	0	0	0	0	0	0	0	0
DOE-HQ	0	0	0	0	0	0	0	0
EO	0	0	0	0	0	0	0	0
RL	1	0	0	0	0	0	0	1
Total Project	1	0	0	0	0	0	0	1

Tri-Party Agreement / EA Milestones
Nothing to report.
DNFSB Commitments
Nothing to report.

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
-------------------	--------------	------------------------	----------------------	----------------------

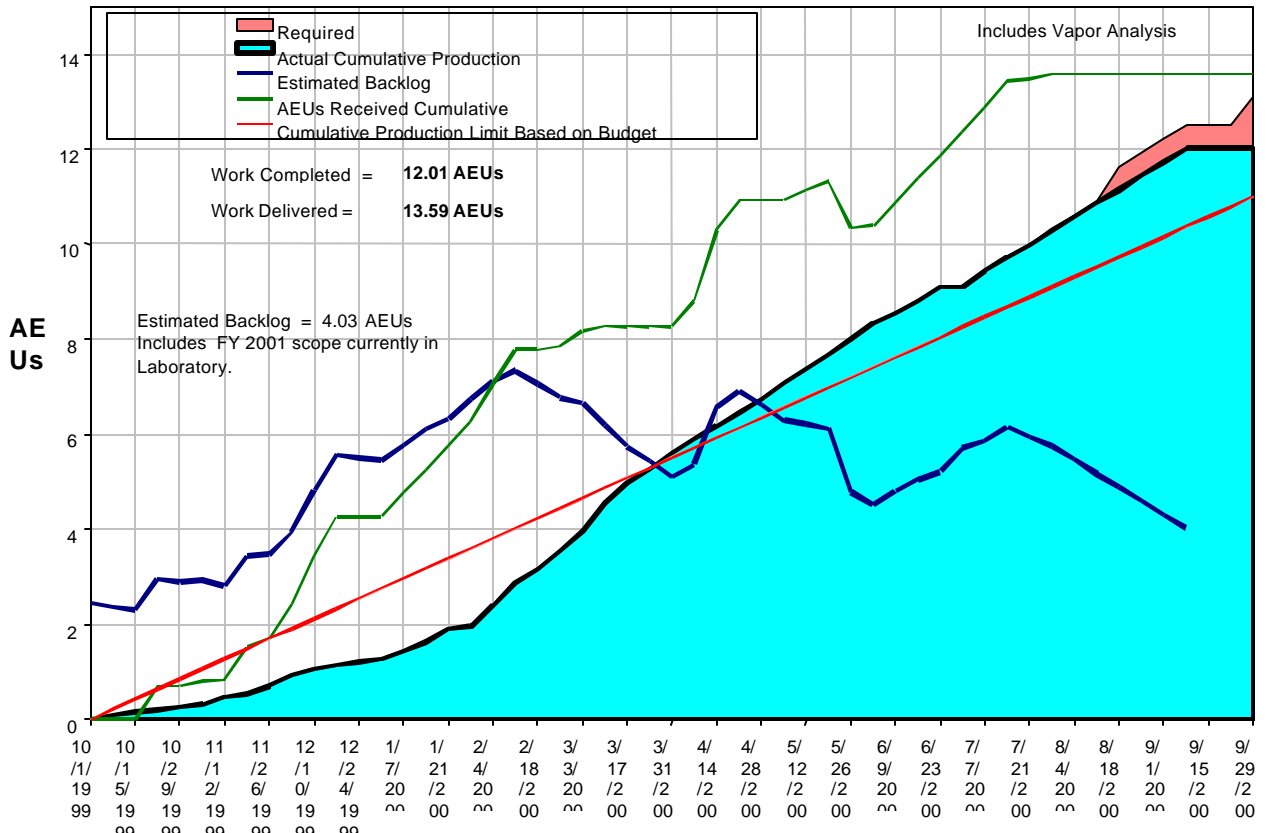
OVERDUE – 0

FORECAST LATE – 0

PERFORMANCE OBJECTIVES

Green

Budgeted Capacity vs. Actual Production - TW01



Completed the FY 2000 milestone of 11 AEUs on August 18, 2000, ahead of the September 30, 2000 date. Production through August 2000 is 11.7 AEUs, versus a planned 10 AEUs. Production for the month of August was 1.4 AEUs.

KEY INTEGRATION ACTIVITIES

- Continue to support ORP efforts to establish required analytical support for Waste Treatment Plant (WTP) design and operation.
- Continue to support Waste Management headspace gas analyses for TRU waste shipment to WIPP.